

Figure II-4. Population estimate for young-of-the-year steelhead, averaged by habitat type, Santa Rosa Creek, C4 Channel, 1999-2001.

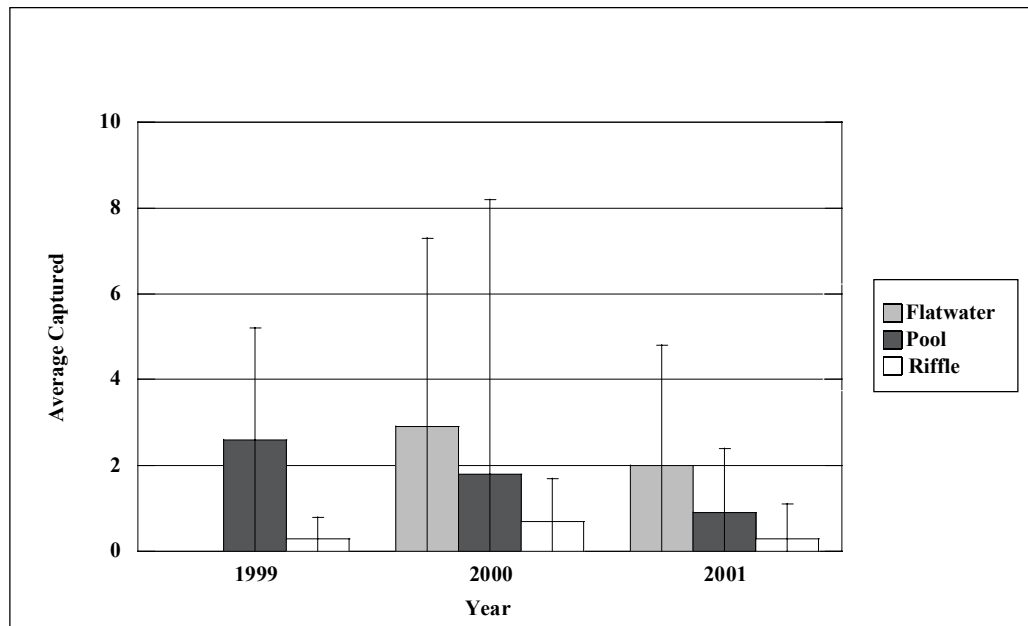


Figure II-5. Average number of captured steelhead aged 1-3+, averaged by habitat type, Santa Rosa Creek, C4 Channel, 1999-2001.

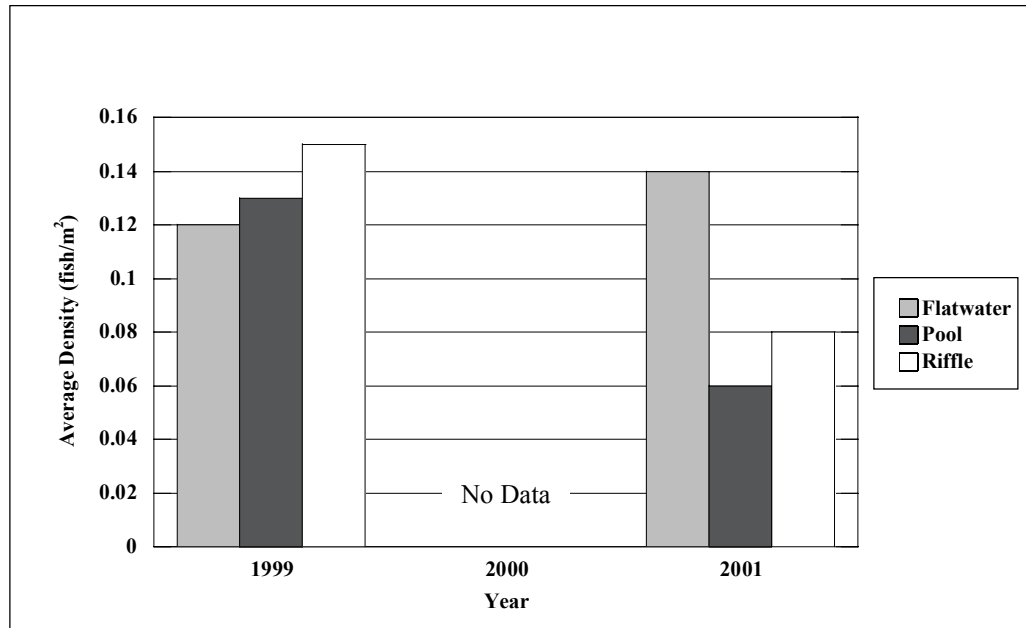


Figure II-6. Average density of young-of-the-year steelhead, Santa Rosa Creek, C4 Channel, 1999-2001.

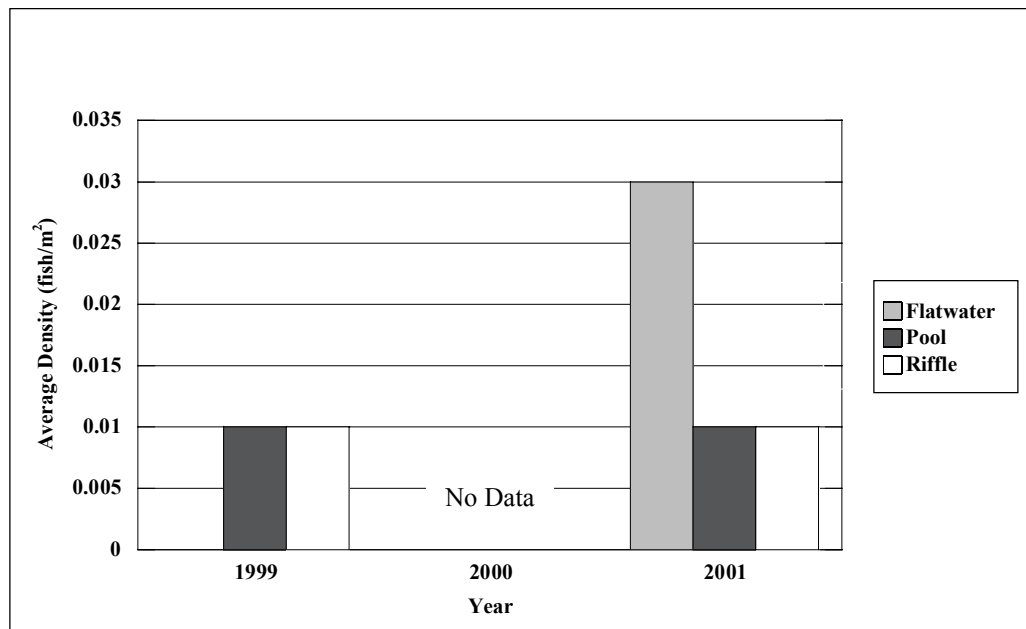


Figure II-7. Average density of 1-3+ aged steelhead, Santa Rosa Creek, C4 Channel, 1999-2001.

III. LENGTH FREQUENCY AND AGE CLASS

SANTA ROSA CREEK

F4 Channel

1999

Figure III-1: Length-frequency for steelhead, all habitats, Santa Rosa Creek (F4 Channel), 1999

Table III-1: Age class comparison for steelhead, Santa Rosa Creek (F4 Channel), 1999

Figure III-2: Length-frequencies for steelhead from flatwater and pools, Santa Rosa Creek (F4 Channel), 1999

2000

Figure III-3: Length-frequency for steelhead, all habitats, Santa Rosa Creek (F4 Channel), 2000.

Table III-2: Age class comparison for steelhead, Santa Rosa Creek (F4 Channel), 2000.

Figure III-4: Length-frequencies for steelhead from flatwater and pools in Santa Rosa Creek (F4 Channel), 2000.

C4 Channel

1999

Figure III-5: Length-frequency for steelhead, all habitats, Santa Rosa Creek (C4 Channel), 1999.

Table III-3: Age class comparison for steelhead, Santa Rosa Creek (C4 Channel), 1999.

Figure III-6: Length-frequencies for steelhead from riffles, flatwater, and pools, Santa Rosa Creek (C4 Channel), 1999.

2000

Figure III-7: Length-frequency for steelhead, all habitats, Santa Rosa Creek (C4 Channel), 2000.

Table III-4: Age class comparison for steelhead, Santa Rosa Creek (C4 Channel), 2000.

Figure III-8: Length-frequencies for steelhead from riffles, flatware, and pools in Santa Rosa Creek (C4 Channel), 2000.

2001

Figure III-9: Length-frequency for steelhead, all habitats, Santa Rosa Creek (C4 Channel), 2001.

Table III-5: Age class comparison for steelhead, Santa Rosa Creek (C4 Channel), 2001.

Figure III-10: Length-frequencies for steelhead from riffles, flatwater, and pools, Santa Rosa Creek (C4 Channel), 2001.

B2 Channel

1999

Figure III-11: Length-frequency for steelhead, all habitats, Santa Rosa Creek (B2 Channel), 1999.

Table III-6: Age class comparison for steelhead, Santa Rosa Creek (B2 Channel), 1999.

Figure III-12: Length-frequencies for steelhead from riffles, flatwater, and pools in Santa Rosa Creek (B2 Channel), 1999.

2000

Figure III-13: Length-frequency for steelhead, all habitats, Santa Rosa Creek (B2 Channel), 2000.

Table III-7: Age class comparison for steelhead sampled in Santa Rosa Creek (B2 Channel), 2000.

Figure III-14: Length-frequencies for steelhead from riffles, flatwater, and pools in Santa Rosa Creek (B2 Channel), 2000.

2001

Figure III-15: Length-frequency for steelhead, all habitats, Santa Rosa Creek (B2 Channel), 2001.

Table III-8: Age class comparison for steelhead, Santa Rosa Creek (B2 Channel), 2001.

Figure III-16: Length-frequencies for steelhead from riffles, flatwater, and pools, Santa Rosa Creek (B2 Channel), 2001.

MILLINGTON CREEK

F2b/B2 Channel

1999

Figure III-17: Length-frequency for steelhead, all habitats, Millington Creek (F2b/B2 Channel), 1999.

Table III-9: Age class comparison for steelhead, Millington Creek (F2b/B2 Channel), 1999.

Figure III-18: Length-frequencies for steelhead from riffles, flatwater, and pools, Millington Creek (F2b/B2 Channel), 1999.

2000

Figure III-19: Length-frequency for steelhead, all habitats, Millington Creek, 2000.

Table III-10: Age class comparison for steelhead, Millington Creek, 2000.

Figure III-20: Length-frequencies for steelhead from riffles, flatwater, and pools, Millington Creek, 2000.

2001

Figure III-21: Length-frequency for steelhead, all habitats, Millington Creek (F2b/B2 Channel), 2001.

Table III-11: Age class comparison for steelhead, Millington Creek (F2b/B2 Channel), 2001.

Figure III-22: Length-frequencies for steelhead from riffles, flatwater, and pools, Millington Creek (F2b/B2 Channel), 2001.

MARK WEST CREEK

F4 Channel

Figure III-23: Length-frequency for steelhead, all habitats, Mark West Creek (F4 Channel), 2000.

Table III-12: Age class comparison for steelhead, Mark West Creek Creek (Upper F4 Channel), 2000.

Figure III-24: Length-frequencies for steelhead from flatwater and pools, Mark West Creek (F4 Channel), 2000.

Lower B2 Channel

Figure III-25: Length-frequency for steelhead, all habitats, Mark West Creek (Lower B2 Channel), 2000.

Table III-13: Age class comparison for steelhead, Mark West Creek Creek (Lower B2 Channel), 2000.

Figure III-26: Length-frequencies for steelhead from riffles, flatwater, and pools, Mark West Creek (Lower B2 Channel), 2000.

C4 Channel

Figure III-27: Length-frequency for steelhead, all habitats, Mark West Creek (C4 Channel), 2000.

Table III-14: Age class comparison for steelhead, Mark West Creek Creek (C4 Channel), 2000.

Figure III-28: Length-frequencies for steelhead from riffles, flatwater, and pools, Mark West Creek (C4 Channel), 2000.

Upper B2 Channel

Figure III-29: Length-frequency for steelhead, all habitats, Mark West Creek (Upper B2 Channel), 2000.

Table III-15: Age class comparison for steelhead, Mark West Creek Creek (Upper B2 Channel), 2000.

Figure III-30: Length-frequencies for steelhead from riffles, flatwater, and pools, Mark West Creek (Upper B2 Channel), 2000.

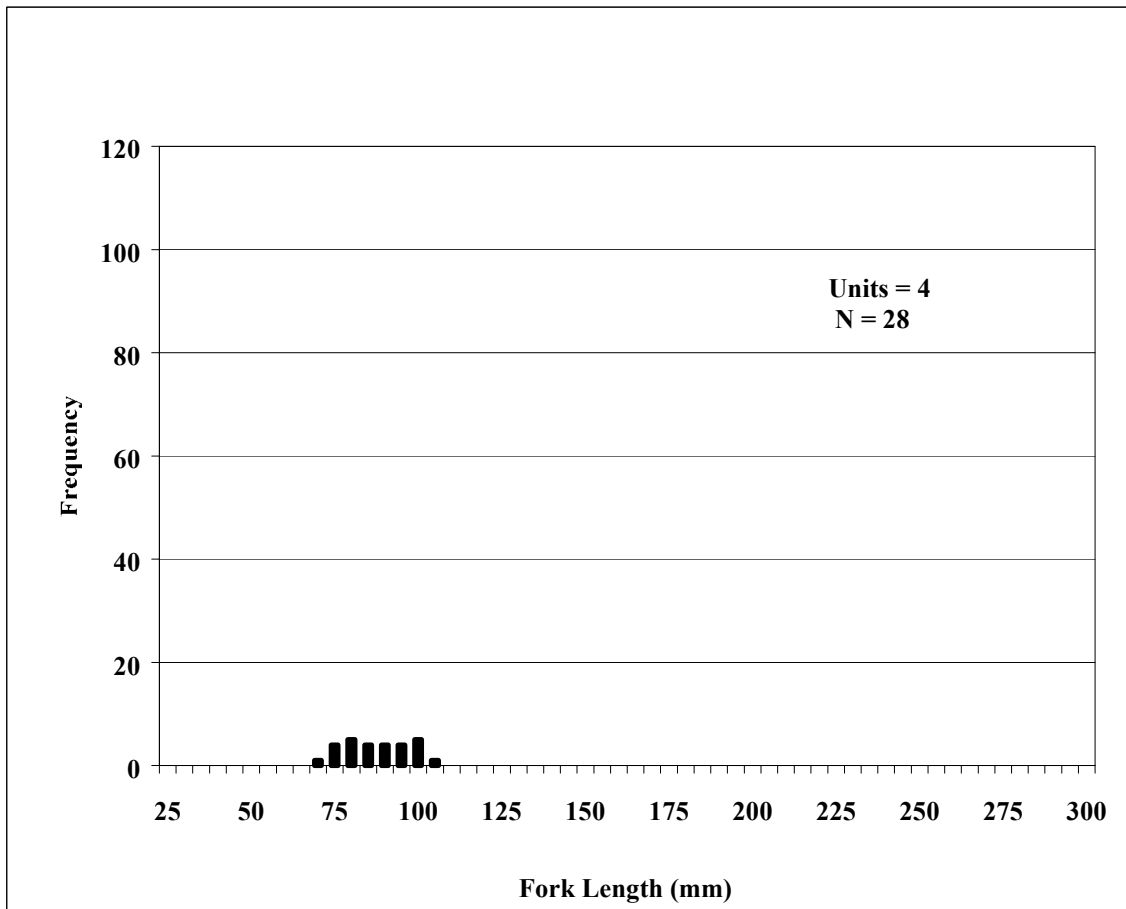


Figure III-1. Length-frequency for steelhead, all habitats, Santa Rosa Creek (F4 Channel), 1999. N = number of fish sampled.

Table III-1. Age class comparison for steelhead, Santa Rosa Creek (F4 Channel), 1999. Range in lengths determined by scale and length-frequency histogram analysis. *n* = number of fish sampled.

| Age | Range in Length (mm) | Average Size (mm) | Standard Dev. | <i>n</i> |
|-----|----------------------|-------------------|---------------|----------|
| 0+ | 74 - 107 | 89.1 | 9.4 | 28 |

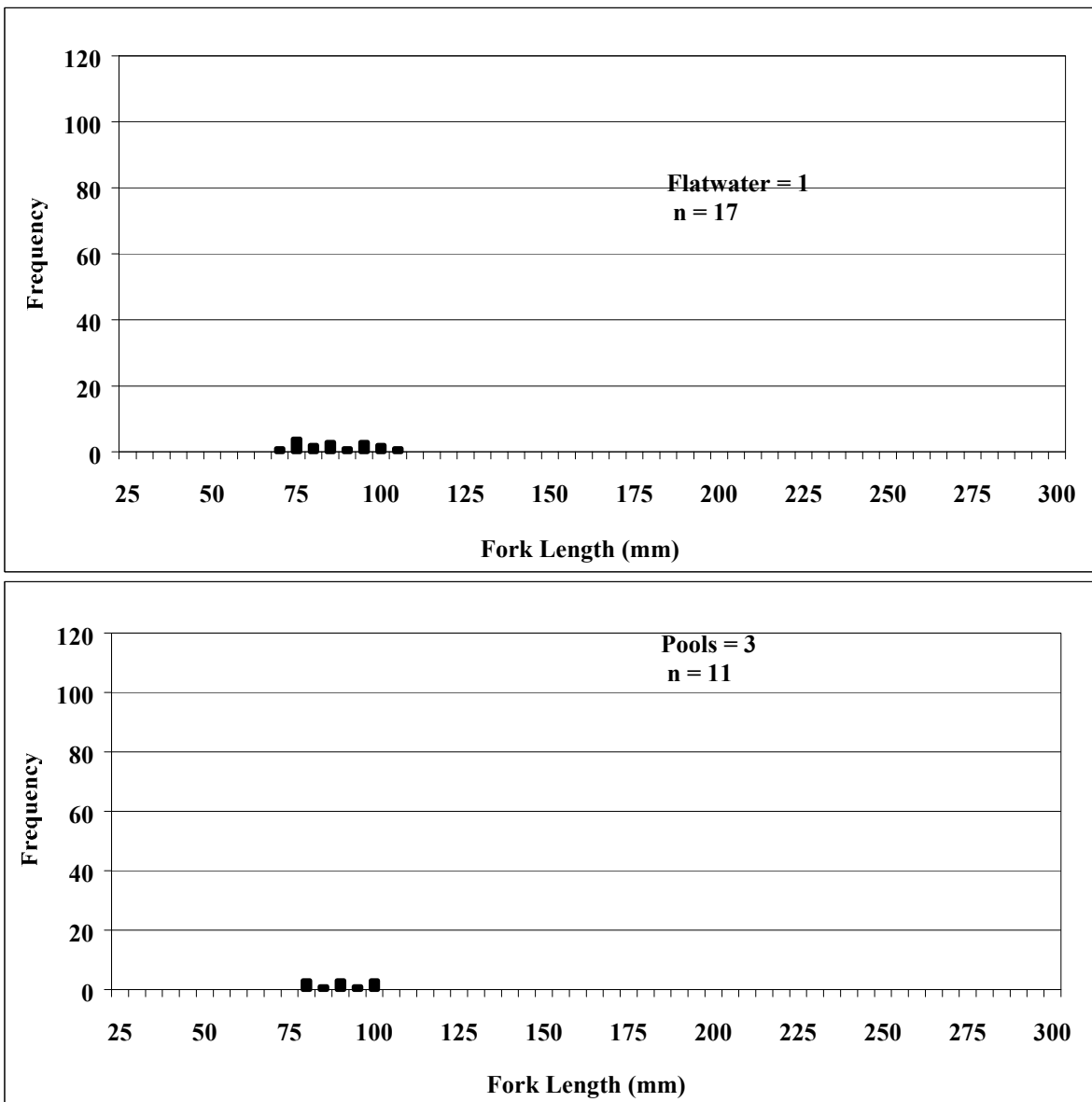


Figure III-2. Length-frequencies for steelhead from flatwater and pools, Santa Rosa Creek (F4 Channel), 1999. n = number of fish sampled. The number of habitat units sampled for each habitat type are indicated. There were no riffle habitat units located in this channel type.

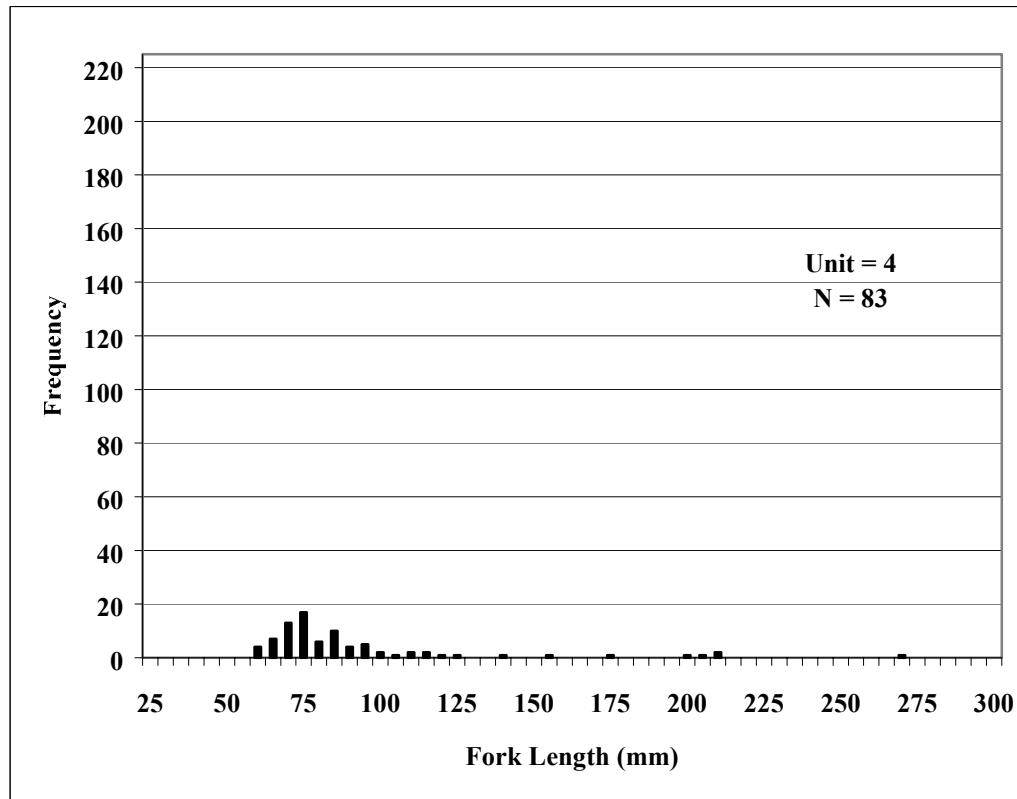


Figure III-3. Length-frequency for steelhead, all habitats, Santa Rosa Creek (F4 Channel), 2000. N = number of fish sampled.

Table III-2. Age class comparison for steelhead, Santa Rosa Creek (F4 Channel), 2000. Range in lengths determined by scale and length-frequency histogram analysis. n = number of fish sampled.

| Age | Range in Length (mm) | Average Size (mm) | Standard Dev. | n |
|-------------|----------------------|-------------------|---------------|----|
| 0+ | 62 – 100 | 78.8 | 9.7 | 67 |
| 1+ | 101 – 155 | 121.3 | 15.9 | 10 |
| 2+ or older | 156 - 274 | 213.2 | 32.6 | 6 |

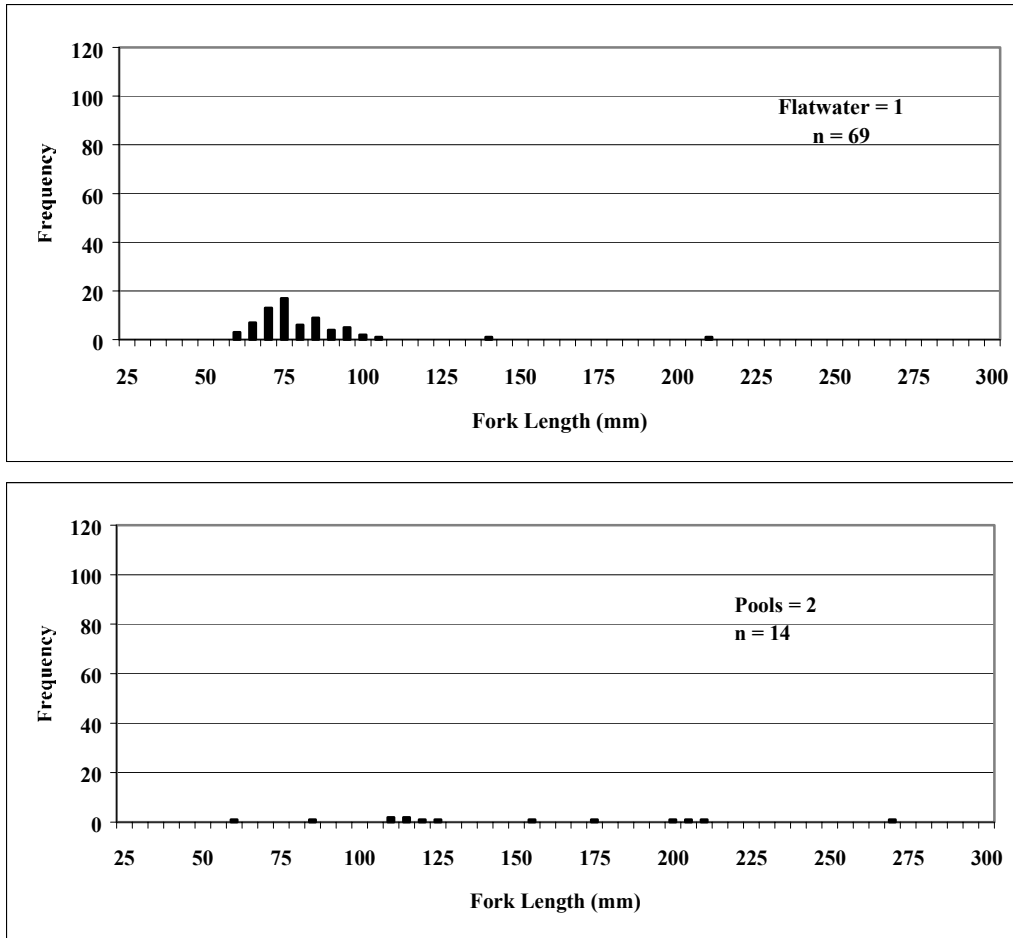


Figure III-4. Length-frequencies for steelhead from riffles, flatwater, and pools in Santa Rosa Creek (F4 Channel), 2000. n = number of fish per habitat type. The number of habitat units sampled for each habitat type is indicated.

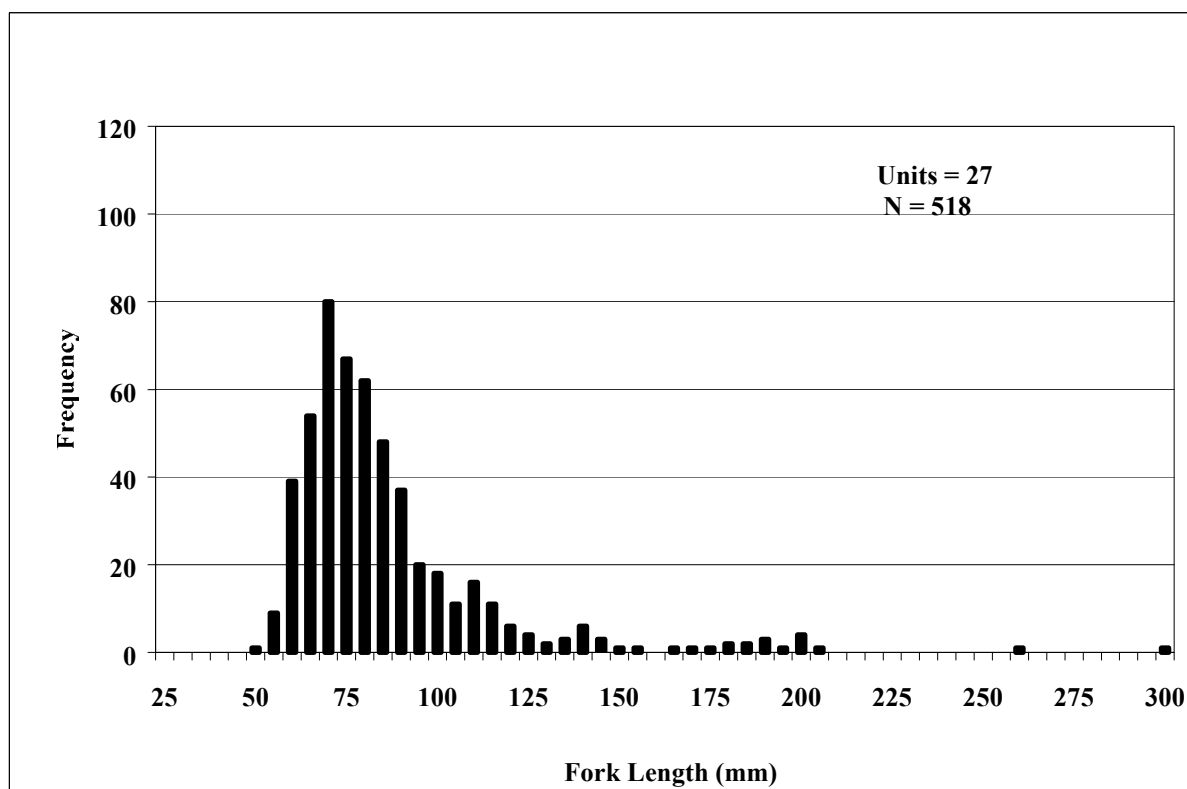


Figure III-5. Length-frequency for steelhead, all habitats, Santa Rosa Creek (C4 Channel), 1999. N = number of fish sampled.

Table III-3. Age class comparison for steelhead, Santa Rosa Creek (C4 Channel), 1999. Range in lengths determined by scale and length-frequency histogram analysis. n = number of fish sampled.

| Age | Range in Length (mm) | Average Size (mm) | Standard Dev. | n |
|-------------|----------------------|-------------------|---------------|-----|
| 0+ | 54 - 124 | 81.4 | 14.7 | 479 |
| 1+ | 125 - 171 | 141.8 | 12.7 | 23 |
| 2+ | 177 - 208 | 192.9 | 9.4 | 14 |
| 3+ or older | 263 - 300 | 281.5 | 26.2 | 2 |